Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	145	FRET and histone and 435/6.ccls.	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/12/12 09:50
L2	0	FRET and histone and 435/69. 7ccls.	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/12/12 09:50
L3	2	FRET and histone and 435/69.7. ccls.	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/12/12 09:50
L4	73	FRET and histone and 435/69.1. ccls.	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/12/12 09:50
L5	77	FRET and histone and 435/320.1. ccls.	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/12/12 09:51
L6	11	FRET and histone and 435/194. ccls.	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/12/12 09:51
L7	53	FRET and histone and 435/7.1. ccls.	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/12/12 09:51
L8	41	FRET and histone and 530/350. ccls.	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/12/12 09:51
L9	2	FRET and histone and 530/358. ccls.	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/12/12 09:51
L10	53	"fluorescent resonance energy transfer" and histone	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/12/12 09:52
L11	7	"634740".ap.	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/12/12 09:52
S1	2	"6639063".pn.	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/01/31 12:56

S2	5750	FRET	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/02/01 15:09
S3	249	FRET and histone	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/12/12 09:49
S4	456	"fluorescent resonance energy transfer"	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/07/26 15:25
S5	47	"fluorescent resonance energy transfer" and histone	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/02/01 15:11
S6	0	"fluorescent resonance energy transfer" same histone	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/02/01 15:11
S7	0	"09865291".ap.	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/02/02 09:53
S8	4	"865291".ap.	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/02/02 09:53
S9	282	"I5" and histones	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/02/03 15:18
S10	7	"634740".ap.	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/07/26 17:03
S11	194	"fluorescent resonance energy transfer" and 435/6.ccls.	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/07/26 15:26
S12	134	"fluorescent resonance energy transfer" and 435/6.ccls. and covalent	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/07/26 16:51
S13	130	"fluorescent resonance energy transfer" and 435/6.ccls. and covalent and modification	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/07/26 15:28

S14	18	"fluorescent resonance energy transfer" and 435/6.ccls. and covalent and modification and histone	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/07/26 15:30
S15	0	"fluorescent resonance energy transfer" and 435/6.ccls. and covalent and modification same histone	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/07/26 15:30
S16	0	"fluorescent resonance energy transfer" and 435/6.ccls. and covalent and histone same modification	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/07/26 15:31
S17	0	"fluorescent resonance energy transfer" and 435/6.ccls. and histone same modification	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/07/26 15:31
S18	0	"fluorescent resonance energy transfer" and histone same modification	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/07/26 15:32
S19	49	"fluorescent resonance energy transfer" and histone and modification	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/07/26 15:32
S20	7732	histone and modification	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/07/26 15:32
S21	648	histone same modification	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/07/26 15:32
S22	33	histone same modification and FRET	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/07/26 15:33
S23	51	histone same modification and FRET or fluorescence with resonance with modification	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/07/26 15:35
S24	33	histone same modification and (FRET or fluorescence with resonance with modification)	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/07/26 15:35
S25	5	"634740".pn.	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/07/26 16:50

S26	7	"634740".ap.	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/07/26 16:50
S27	50	"fluorescent resonance energy transfer" and 435/7.1.ccls. and covalent	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/07/26 16:52
S28	0	"fluorescent resonance energy transfer" and 435/6.1.ccls. and covalent	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/07/26 16:52
S29	48	"fluorescent resonance energy transfer" and 435/69.1.ccls. and covalent	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/07/26 16:52
S30	0	"fluorescent resonance energy transfer" and 435/69.6.ccls. and covalent	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/07/26 16:52
S31	51	"fluorescent resonance energy transfer" and 435/320.1.ccls. and covalent	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/07/26 16:52
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S33	1	"fluorescent resonance energy transfer" and 530/358.ccls. and covalent	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/07/26 16:53
S34	4	"636620".ap.	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/07/28 10:00
S35	2	"636620".ap. and "20"	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/07/28 10:00
S36	2	"6465199".pn.	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2005/08/16 12:48

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=> index bioscience
FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED
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       BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB,
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74 FILES IN THE FILE LIST IN STNINDEX

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=> ("fluorescent resonance energy transfer" or FRET )and histone
           3   FILE BIOENG
  11 FILES SEARCHED...
          12   FILE BIOSIS
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  25 FILES SEARCHED...
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         301   FILE USPATFULL
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L1    QUE ("FLUORESCENT RESONANCE ENERGY TRANSFER" OR FRET ) AND HISTONE

=> d rank
F1          301   USPATFULL
F2           25   USPAT2
F3           17   CAPLUS
F4           15   SCISEARCH
F5           12   BIOSIS
F6           11   ESBIOBASE
F7            9   MEDLINE
F8            7   EMBASE
F9            6   LIFESCI
F10           5   BIOTECHABS
F11           5   BIOTECHDS
F12           5   WPIDS
F13           5   WPINDEX
F14           4   DGENE
F15           4   DISSABS
F16           4   FEDRIP
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F18           3   BIOENG
F19           3   BIOTECHNO
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F20             3   TOXCENTER
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F22             1   CEABA-VTB
F23             1   DRUGU
F24             1   PASCAL


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=> ("fluorescent resonance energy transfer" or FRET )and histone
L2          38 ("FLUORESCENT RESONANCE ENERGY TRANSFER" OR FRET ) AND HISTONE

=> du premove
L3           0 DU PREMOVE

=> ("fluorescent resonance energy transfer" or FRET )and histone
L4          38 ("FLUORESCENT RESONANCE ENERGY TRANSFER" OR FRET ) AND HISTONE

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L5           26 DUP REMOVE L4 (12 DUPLICATES REMOVED)

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L5   ANSWER 1 OF 26  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Live cell biosensors comprising a binding domain, such as scFv, and a
     solvent sensitive merocyanine dye derivatized to prevent aggregation

L5   ANSWER 2 OF 26  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   In vivo assays for enzyme activity using liposome encapsulating
     chromogenic substrate to facilitate intracellular delivery

L5   ANSWER 3 OF 26  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   Device for measuring nanometer level pattern-dependent binding reactions

L5   ANSWER 4 OF 26  BIOSIS  COPYRIGHT (c) 2005 The Thomson Corporation  on STN
TI   Acetylation of HIV-1 integrase by p300 regulates viral integration.

L5   ANSWER 5 OF 26  CAPLUS  COPYRIGHT 2005 ACS on STN
TI   MOZ-TIF2 inhibits transcription by nuclear receptors and p53 by impairment
     of CBP function

L5   ANSWER 6 OF 26  BIOSIS  COPYRIGHT (c) 2005 The Thomson Corporation  on STN
TI   A glue for heterochromatin maintenance: stable SUV39H1 binding to
     heterochromatin is reinforced by the SET domain.

L5   ANSWER 7 OF 26  CAPLUS  COPYRIGHT 2005 ACS on STN DUPLICATE 1
TI   Imaging in situ protein-DNA interactions in the cell nucleus using
     FRET-FLIM
```

L5 ANSWER 8 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN
TI Genetically encoded fusion protein fluorescent reporters of kinase, methyltransferase, and acetyltransferase activities in cells and tissues

L5 ANSWER 9 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN
TI A new fluorescence resonance energy transfer approach demonstrates that the **histone** variant H2AZ stabilizes the **histone** octamer within the nucleosome

L5 ANSWER 10 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN
TI Genetically encoded fluorescent reporters of **histone** methylation in living cells

L5 ANSWER 11 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 2
TI After double-strand break induction by UV-A, homologous recombination and nonhomologous end joining cooperate at the same DSB if both systems are available

L5 ANSWER 12 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN
TI A genetically encoded fluorescent reporter of **histone** phosphorylation in living cells

L5 ANSWER 13 OF 26 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
TI **Histone** H1 and DNA interaction study using several methods in fluorescence spectroscopy.

L5 ANSWER 14 OF 26 MEDLINE on STN
TI Interaction of maize Opaque-2 and the transcriptional co-activators GCN5 and ADA2, in the modulation of transcriptional activity.

L5 ANSWER 15 OF 26 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
TI Selective recognition of acetylated **histones** by bromodomain proteins visualized in living cells.

L5 ANSWER 16 OF 26 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
TI Structure and function of the cell nucleus.

L5 ANSWER 17 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN
TI Multiphoton microspectroscopy in living plant cells

L5 ANSWER 18 OF 26 MEDLINE on STN
TI Reflections on apparent DNA bending by charge variants of bZIP proteins.

L5 ANSWER 19 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 3
TI The Photomorphogenesis Regulator DET1 Binds the Amino-Terminal Tail of **Histone** H2B in a Nucleosome Context

L5 ANSWER 20 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 4
TI Spectrally resolved fluorescence lifetime imaging microscopy

L5 ANSWER 21 OF 26 MEDLINE on STN
TI Far-red fluorescent tag for protein labelling.

L5 ANSWER 22 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN
TI Fusions of **histones** and fluorescent proteins and their use in monitoring the behavior of chromatin and DNA

L5 ANSWER 23 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 5
TI Trajectory of Nucleosomal Linker DNA Studied by Fluorescence Resonance Energy Transfer

L5 ANSWER 24 OF 26 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
TI Distance measurements on nucleosomaler linker DNA by **FRET**.

L5 ANSWER 25 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 6
TI Structural and kinetic studies of a cisplatin-modified DNA icosamer binding to HMG1 domain B

L5 ANSWER 26 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 7
TI Mechanism of oligonucleotide release from cationic liposomes

=> d ab bib 7, 9, 12, 15, 19, 22

L5 ANSWER 7 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 1
AB Although the distribution of DNA-binding proteins inside the cell nucleus can be analyzed by immunolabeling or by tagging proteins with GFP, we cannot establish whether the protein is bound to DNA or not. Here, we describe a novel approach that allows imaging of the in situ interaction between a GFP-fusion protein and DNA in the cell nucleus, using fluorescence resonance energy transfer (**FRET**). We used fluorescence lifetime imaging microscopy (FLIM) as a reliable tool to detect protein in contact with DNA. The method was successfully applied to the DNA-binding proteins **histone** H2B and the glucocorticoid receptor and to the heterochromatin-associated proteins HP1α and HP1β.
AN 2005:1014391 CAPLUS
TI Imaging in situ protein-DNA interactions in the cell nucleus using **FRET**-FLIM
AU Cremazy, Frederic G. E.; Manders, Erik M. M.; Bastiaens, Philippe I. H.; Kramer, Gertjan; Hager, Gordon L.; van Munster, Erik B.; Verschure, Pernette J.; Gadella, TheodorusW. J.; van Driel, Roel
CS Swammerdam Institute for Life Sciences, BioCentrum Amsterdam, University of Amsterdam, Amsterdam, 1098 SM, Neth.
SO Experimental Cell Research (2005), 309(2), 390-396
CODEN: ECREAL; ISSN: 0014-4827
PB Elsevier
DT Journal
LA English
RE.CNT 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 9 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN
AB Nucleosomes are highly dynamic macromol. complexes that are assembled and disassembled in a modular fashion. One important way in which this dynamic process can be modulated is by the replacement of major **histones** with their variants, thereby affecting nucleosome structure and function. Here, the authors used fluorescence resonance energy transfer (**FRET**) between fluorophores attached to various defined locations within the nucleosome to dissect and compare the structural transitions of **histone** H2A.Z-containing and a canonical nucleosome in response to increasing ionic strength. The authors showed that the peripheral regions of the DNA dissociated from the surface of the **histone** octamer at relatively low ionic strength, under conditions where the dimer-tetramer interaction remained unaffected. At .apprx.550 mM NaCl, the (H2A-H2B) dimer dissociated from the (H3-H4)2 tetramer-DNA complex. Significantly, this latter transition was stabilized in nucleosomes that had been reconstituted with essential **histone** variant H2A.Z. These studies firmly establish **FRET** as a valid method to study nucleosome stability, and shed new light on the biol. function of H2A.Z.
AN 2004:449139 CAPLUS
DN 141:152776
TI A new fluorescence resonance energy transfer approach demonstrates that

the **histone** variant H2AZ stabilizes the **histone** octamer within the nucleosome
AU Park, Young-Jun; Dyer, Pamela N.; Tremethick, David J.; Luger, Karolin
CS Department of Biochemistry and Molecular Biology, Colorado State University, Fort Collins, CO, 80523-1870, USA
SO Journal of Biological Chemistry (2004), 279(23), 24274-24282 CODEN: JBCHA3; ISSN: 0021-9258
PB American Society for Biochemistry and Molecular Biology
DT Journal
LA English
RE.CNT 53 THERE ARE 53 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 12 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN
AB An increase in **FRET** indicates phosphorylation of **histone** H3 at serine 28. The protein-based reporter responds to phosphorylation through intramol. complexation between a substrate domain derived from **histone** H3 and a linked phosphoserine-recognition domain. The reporter is also effective inside living mammalian cells. **FRET** = fluorescence resonance energy transfer.
AN 2004:479920 CAPLUS
DN 141:136464
TI A genetically encoded fluorescent reporter of **histone** phosphorylation in living cells
AU Lin, Chi-Wang; Ting, Alice Y.
CS Department of Chemistry, Massachusetts Institute of Technology, Cambridge, MA, 02139, USA
SO Angewandte Chemie, International Edition (2004), 43(22), 2940-2943 CODEN: ACIEF5; ISSN: 1433-7851
PB Wiley-VCH Verlag GmbH & Co. KGaA
DT Journal
LA English
RE.CNT 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 15 OF 26 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
AB Acetylation and other modifications on **histones** comprise **histone** codes that govern transcriptional regulatory processes in chromatin. Yet little is known how different **histone** codes are translated and put into action. Using fluorescence resonance energy transfer, we show that bromodomain-containing proteins recognize different patterns of acetylated **histones** in intact nuclei of living cells. The bromodomain protein Brd2 selectively interacted with acetylated lysine 12 on **histone** H4, whereas TAFdblvert250 and PCAF recognized H3 and other acetylated **histones**, indicating fine specificity of **histone** recognition by different bromodomains. This hierarchy of interactions was also seen in direct peptide binding assays. Interaction with acetylated **histone** was essential for Brd2 to amplify transcription. Moreover association of Brd2, but not other bromodomain proteins, with acetylated chromatin persisted on chromosomes during mitosis. Thus the recognition of **histone** acetylation code by bromodomains is selective, is involved in transcription, and potentially conveys transcriptional memory across cell divisions.
AN 2004:149090 BIOSIS
DN PREV200400152814
TI Selective recognition of acetylated **histones** by bromodomain proteins visualized in living cells.
AU Kanno, Tomohiko; Kanno, Yuka; Siegel, Richard M.; Jang, Moon Kyoo; Lenardo, Michael J.; Ozato, Keiko [Reprint Author]
CS Laboratory of Molecular Growth Regulation, National Institute of Child Health and Human Development, National Institutes of Health, Bethesda, MD, 20892, USA

ozatok@nih.gov
SO Molecular Cell, (January 16 2004) Vol. 13, No. 1, pp. 33-43. print.
ISSN: 1097-2765 (ISSN print).
DT Article
LA English
ED Entered STN: 17 Mar 2004
Last Updated on STN: 17 Mar 2004

L5 ANSWER 19 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 3
AB Light provides a major source of information from the environment during plant growth and development. Recent results suggest that the key events controlling light-regulated gene expression in plants are translocation of the phytochrome photoreceptors into the nucleus, followed by their binding to transcription factors such as PIF3. Coupled with this, the degradation of pos. acting intermediates such as the transcription factor HY5 by COP1 and the COP9 signalosome appears to be an important process whereby photomorphogenesis is repressed in darkness (e.g.). Genetic analyses in Arabidopsis and tomato have revealed that the nuclear protein DET1 also plays a key role in the repression of photomorphogenesis. However, the function of this protein has remained a mystery. In a series of in vitro expts., we provide persuasive evidence that DET1 binds to nonacetylated amino-terminal tails of the core **histone** H2B in the context of the nucleosome. Furthermore, we have utilized **FRET** (fluorescence resonance energy transfer) imaging with GFP variants to demonstrate this interaction within the nucleus of living plant cells. Given the dramatic photomorphogenic phenotypes of det1 mutants, we propose that chromatin remodeling plays a heretofore unsuspected role in regulating gene expression during photomorphogenesis.
AN 2002:702137 CAPLUS
DN 137:381424
TI The Photomorphogenesis Regulator DET1 Binds the Amino-Terminal Tail of **Histone** H2B in a Nucleosome Context
AU Benvenuto, Giovanna; Formiggini, Fabio; Laflamme, Pierre; Malakhov, Mikhail; Bowler, Chris
CS Stazione Zoologica "Anton Dohrn", Laboratory of Molecular Plant Biology, Naples, I-80121, Italy
SO Current Biology (2002), 12(17), 1529-1534
CODEN: CUBLE2; ISSN: 0960-9822
PB Cell Press
DT Journal
LA English
RE.CNT 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 22 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN
AB Disclosed is a method for the in vivo marking of DNA and chromatin structures in a cell. The method uses a fusion protein of a **histone** and a fluorescent protein. Expression of the gene in the cell results in nucleosomal chromatin becoming labeled with the fluorescent group. The labeling allows the anal. of structure of DNA in chromatin, chromatin structure, core structure, cell structure or cell dynamics, apoptosis, etc., whereby said method is based upon said in vivo marking. In a special embodiment of the inventive method, the fusion protein is linked to a hexahistidine tag. **Histone** proteins can thus be easily isolated. Cloning of human **histone** genes and the construction of genes for fusion proteins with green fluorescent protein variants is described. Use of the labeled proteins to monitor apoptosis in HeLa cells is demonstrated.
AN 2001:693539 CAPLUS
DN 135:268167
TI Fusions of **histones** and fluorescent proteins and their use in monitoring the behavior of chromatin and DNA
IN Knoch, Tobias; Waldeck, Waldemar; Mueller, Gabriele; Alonso, Angel; Langwoski, Joerg

PA Deutsches Krebsforschungszentrum Stiftung des Oeffentlichen Rechts, Germany
SO PCT Int. Appl., 45 pp.
CODEN: PIXXD2
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001068881	A2	20010920	WO 2001-DE1044	20010316
	WO 2001068881	A3	20020314		
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	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
	DE 10013204	A1	20011011	DE 2000-10013204	20000317
PRAI	DE 2000-10013204	A	20000317		